

**NEXGEN CONTRACT SOW
SMALL BUSINESS SET ASIDE
OCTOBER 2001**

1. BACKGROUND.

The Defense Information Systems Agency (DISA) is the Department of Defense (DOD) command and control information systems engineer and provides the engineering for interoperable, integrated, secure, and affordable DOD command and control information systems to support the warfighter. DISA Director for Information and Joint Information and Engineering Organization (D6/JIEO) provides engineering support to all program managers in DISA, Commanders in Chief (CINCs), and agencies with responsibilities for information systems design, development, and implementation in accordance with DISA resources and priorities and as directed by the Assistant Secretary of Defense, (Command, Control, Communications and Intelligence) (ASD(C3I)). The DISA Next Generation Engineering Contract (NexGen) will provide support for the engineering and interoperability of DISA's core mission areas: Global Command and Control System (GCCS), Global Information Grid (GIG), Defense Information System Network (DISN), Defense Message System (DMS), Global Combat Support System (GCSS), Defense Information Infrastructure Common Operating Environment (DII COE), Information Assurance (IA), Electronic Business/Electronic Commerce (EB/EC), National Military Command Systems (NMCS) and Senior Leadership Communications System (SLCS). Additionally, this contract provides support for telecommunications services, enterprise computing, and future engineering requirements. This contract requirement is a consolidation of expiring contracts including: the Joint Information and Engineering Organization (JIEO) Systems Engineering Contract (JSE), the Defense Information Infrastructure Integration Contract (DII-IC), Data Standardization Management Support, and the Systems Engineering and Technical Assistance to the Command Centers and Crisis Management Facilities.

2. OBJECTIVE.

The objective of NexGen is to provide global scientific, engineering, integration, and technical services under multiple award, indefinite delivery/indefinite quantity (ID/IQ) task order type contracts that support DISA's missions and other DOD and Federal agencies. This acquisition provides DISA multiple flexible vehicles to support its agency-wide requirements and its customers who seek support within DISA's missions and functions. This contract will provide DISA with intensive software integration support for the GIG with integrated mission applications and data segments.

3. SCOPE.

The scope of this effort will span the breadth of DISA's mission. All DOD and Federal government agencies may also utilize these contracts to satisfy their engineering requirements. The contractor shall provide scientific, engineering, integration, and technical support services and operational support services as described within the task areas. Specific efforts tasked to the

contractor may include but are not limited to the descriptions of these task areas detailed in this document.

The span of scientific, engineering, integration, and technical support services required encompasses a range of tasks and several disciplines, including command and control, facilities, communications, airborne platforms, and information systems. Work under this contract will support the development, maintenance, and implementation of DOD Shared Data Resources, National Military Strategy of the United States, National Security Strategy, and Joint Strategic Capabilities Plan (JSCP). For DOD task orders, the contractor shall comply with the appropriate DOD-approved architectures, standards, and guidelines.

Seamless interoperability of the various mission and support applications encompassing DISA's mission, allowing information to be provided to warfighters regardless of location, is an absolute requirement for this contract. Efforts will include a full spectrum of engineering test and evaluation for the command centers and crisis management facilities that support the NMCS Command Centers and SLCS. Additionally, efforts are essential to provide network and system operations, maintenance and management services for network and information systems, systems administration, software, applications and demonstrations support for Defense Information Systems Network (DISN).

4. SMALL BUSINESS TASK AREAS. The contractor shall furnish the necessary personnel, materials, facilities, travel, and other services required to provide worldwide integration support, systems engineering and related services. Technical solutions provided by the contractor exist within the scope of the following eight SB task areas:

1. Task Area 1 – SB-General Systems Engineering
2. Task Area 2 – SB-Information Systems Engineering
3. Task Area 3 – SB-Network Engineering
4. Task Area 4 – SB-Security Engineering
5. Task Area 5 – SB-Systems Integration
6. Task Area 6 – SB-Systems Implementation
7. Task Area 7 – SB-Information Technology Standards
8. Task Area 8 – SB-Program Management

4.1 Task Area 1 – SB-General Systems Engineering. The requirements of this task area involve management, technical, requirements, and analysis/assessment support as identified in individual task orders. The contractor shall perform the following representative activities for services required under this task area:

4.1.1 Policy Assessment Support. Provide technical interoperability and policy assessment, review, and analysis support for the planning, coordination, and collaboration of planned and evolving standards requirements, Mission Need Statements (MNSs), Operational Requirements Documents (ORD), Test and Evaluation Master Plans (TEMPs), Memorandums of Agreement (MOAs), transition plans, and implementation plans for mission applications. Provide program management and technical support to oversight working groups, Assessment Working Integrated Product Teams (AWIPT), and risk management activities. Develop recommendations and

automated tools to improve/expedite the assessment process and provide lifecycle operational, maintenance, and configuration management support. Provide technical, engineering, and management support in the concept development, drafting, staffing, assembly, and validation of publications. Representative of this task for DISA is support to Office of the Secretary of Defense (OSD), Joint Staff (JS), CINCs, Services and Agencies for National Standards System/Information Technology Standards (NSS/ITS) requirements, CINC Command and Control Initiative Program (C2IP) Proposals, ASD (C4I) Support Plans, and other joint and allied publications.

4.1.2 Requirements Analysis Support. Provide support for applications software migration, resource analysis on the customer change requests, and design and implement change requests in accordance with the approved standards. This task includes support for the GCCS Reconnaissance System (GRIS) and the Joint Operational Planning and Execution System (JOPES) migration strategy.

4.1.3. Research and Tracking Support. Provide research assistance to the government; correlate, track, and display information on status boards, in briefings, and via charts; build and maintain databases to track action items, schedules, and key events; monitor status of operational issues related to sites; maintain current lists of points of contact (POCs); respond to action items generated as a result of meetings, technical discussions, and internal reviews.

4.1.4 Laboratory Operational Administration Support. This support includes the setup of hardware and installation of operating systems, databases, and applications to include SUN, IBM, and HP UNIX OS, Windows, Windows NT, ORACLE, and supporting utilities; hardware and software configuration; system and network security; database administration to include creating and managing user accounts and passwords, installing Domain Name Server (DNS) updates, performing system backups and restores, supporting vulnerability alert processes, maintaining system administration accreditation, managing disk and memory usage, tuning, and providing technical assistance to customers using the systems; product evaluations to include version releases of existing system products and new hardware and software products required for customer efforts and/or to enhance the laboratory operations; auditing and tracking laboratory hardware, software, and documentation; internal software license management to include auditing of new segment deliveries, determining license requirements, commercial version numbers, and dependencies with other software products requiring licenses.

4.1.5 Satellite Communications (SATCOM) Support. The contractor shall provide the full range of SATCOM support to include:

- Interim Tactical Orderwire System (ITOS) software development and testing
- Jam Resistant Secure Communications (JRSC) nuclear sustainment network engineering
- Earth terminal verification
- Planning, design, and engineering tradeoffs in the areas of modulation, multiple access, spacecraft antenna systems, and earth terminal designs

- Baseband user analysis requirements (i.e., Midas, Integrated Network Digital Exchange (IDNX), Asynchronous Transfer Mode (ATM), Transmission Control Protocol/Internet Protocol (TCP/IP))
- Development and modification of software tools for architectural studies (i.e., WinSat, MAST, ExSALT)
- Performing architectural studies and satellite loadings on various systems (i.e., Defense Satellite Communications System Satellite Life Extension Program (DSCS SLEP), Gapfiller)
- Providing NATO SATCOM support to include satellite loadings and determining satellite capacity and required earth stations
- Providing support in the area of International Telecommunications Union (ITU) regulations to include international negotiations
- Performing analysis of capabilities between present Extremely High Frequency (EHF) system and Advanced EHF (AEHF) system
- Supporting Demand Assigned Multiple Access (DAMA)
- Evaluating techniques (i.e., demodulation, remodulation, decoding, encoding, packet switching, uplinks and downlinks) for proposed satellites and ascertaining utility of each with regards to the need of the Warfighter
- Evaluating current Military Satellite Communications (MILSATCOM) control systems, including DSCS, Global Broadcast System (GBS), and Wideband Commercial SATCOM programs

4.2 Task Area 2 - SB-Information Systems Engineering. The contractor shall provide support as identified in individual task orders to include, but not limited to: design, develop, integrate, test, install, and maintain data engineering products and or data management support for Oracle databases and related tables and test and documentation support for leading edge and pilot service activities to include operation and maintenance usage and performance/status information for configuration management records and databases. DISA support is required for the DOD Windows NT Automated Message Handling System (AMHS) Discretionary Access Control (DAC), profile maintenance development, and Web interface.

4.3 Task Area 3 - SB-Network Engineering. Support under this task includes program control and administration, system administration, maintenance of hardware and software, system management backup and recovery, configuration management, security, enterprise database, logistics and subscriber services support required to operate and maintain a full operational capability for networks as stated in individual task orders. Additional support is required to develop engineering designs, cost estimates, bills of material and support hardware and software acquisition, staging, testing deployment, installation, monitoring, and operate and maintain networks as required by the design of both the network and the experiments to be conducted over the network. DISA tasking includes operational support for the classified and unclassified integration environment laboratories inclusive of network management, systems administration, access security (i.e., password and firewall control), subscriber cost estimates and Information Assurance Vulnerability Assessment (IAVA) compliance for all networks and systems. Additionally, provide support for Joint Warrior Interoperability Demonstration (JWID), and other DOD exercises as specified in the task orders.

4.4 Task Area 4 - SB-Security Engineering. This task area includes analyses, technical studies, trade-off analyses, product evaluations, testing, design, integration, and installation operations to provide IA solutions for information systems, infrastructures, and networks. Additional tasking includes configuration and inventory management to control changes to the networks and systems in an identifiable and controlled manner to ensure changes to the environment do not adversely affect operational activities; software and application support and demonstration services as required to identify requirements, perform analysis and design, reengineer and implement/deploy systems, provide security accreditation; and installation and operation of security tools. DISA specifically requires support for Defense-in-Depth (DID) protection for DOD networks, support to upgrade servers with Fortezza cards, and support for messaging requirements using Public Key Infrastructure (PKI) certificates.

4.5 Task Area 5 – SB-Systems Integration. Support under this task includes the following activities as specified in individual task orders:

4.5.1 Testing. Plan and conduct testing of segments, mission applications, databases, associated interfaces, integrated subsystems, system builds, software units, and systems; analysis of Integration & Runtime Specifications (I&RTS) compliance, performance, functionality, security, problem reports, and documentation; develop test plans, which include validation functionality, backward compatibility, regression testing, interoperability, and security; update scripts and procedures to reflect changes to compliance and security testing requirements; install, verify, and control the correct hardware and software configuration to ensure correct test baseline on the test systems for the duration for all tests; perform Independent Validation and Verification (IV&V) of installation procedures; maintain test libraries including all current test plans, descriptions, test reports, software segments, and deliveries

4.5.2 Integration and Installation. This task area includes technology insertion support including software/application upgrades and new technology hardware insertions and installation and integration support for current and new sites.

4.6 Task Area 6 – SB-Systems Implementation. The contractor shall provide the following support as stated in individual task orders: perform site surveys, install hardware and software, and provide training for software enhancements; staging and presenting of command and control demonstrations at various forums and conferences; install, test, and develop procedures for the operation, maintenance, and use of IA software, hardware, and networking tools; provide assistance to integrate the tools and develop transition plans for the technology; design, develop, test, and maintain enhancements to the existing applications and supporting web-based versions of segments; provide central technical assistance via telephone; develop and update manuals using Microsoft Word, FrameMaker, and XML.

4.7 Task Area 7 – SB-Information Technology Standards. Provide expert technical support for all aspects of the entire life cycle of Information Technology (IT) standards planning policy, development, validation, testing, and program implementation and guidance products. This support includes development and refinement of technical and operational standards and standards-based architectures, IT standards guidance and guidance products, standards interoperability assessments and technical recommendations in the entire spectrum of

technologies and programs. Areas of focus include information transfer, information processing, and emerging technology standards and data standards development. Representative of this work are support for update of CJCSM 6231 and the Joint Technical Architecture (JTA).

4.8 Task Area 8 - SB-Program Management Support. This task area addresses support for contract and task order management functions. The contractor shall perform the following:

4.8.1 Management Planning. Develop and maintain management plans at contract and task order initiation if requested. These plans shall describe the technical approach, organizational resources, and management controls that the contractor will employ to meet the cost, performance, and schedule requirements throughout the period of performance.

4.8.2 Task Order Management. Perform the daily activities required for successful program completion. Provide monthly status reports, which may include task summaries, problem areas or issues, contractor changes, travel, cost summaries, personnel labor costs and hours by tasks and/or subtasks. Conduct monthly project management reviews addressing the status of programmatic and technical progress.

4.8.3 Internal Management Controls. Provide internal management controls that include established and documented means to execute and perform quality assurance on deliverables, configuration management, work breakdown structuring, human engineering, and security. Ensure that fielded products satisfy validated requirements and user expectations, are easy to use, augment, modify, and maintain, and are in compliance with specifications and standards for development, life cycle management and quality management. Conduct audits, reviews, assessments, and inspections for products and processes and retain the documented results in an electronic media accessible by the project offices.

5. GOVERNMENT FURNISHED INFORMATION (GFI), EQUIPMENT, AND WORKSPACE. The Government may provide the items listed below as necessary for the contractor to fulfill the tasks described in task order statements of work.

5.1 Information. Government furnished information (GFI) such as technical data, applicable documents, plans, regulations, and specifications may be specified in individual task orders.

5.2 Equipment. The Government may provide hardware and/or software requiring technical analysis, evaluation, verification, or study in support of a specific task as specified in individual task orders. GFE provided to the contractor in support of individual task orders shall be tracked through applicable procedures provided by the Contracting Officer in accordance with the Federal Acquisition Regulation (FAR). Equipment shall be accounted for and marked accordingly for identification and tracking purposes with the Contract Number, Task Order Number, Serial Number and other information as required by the Contracting Officer. The Government does not intend to provide hardware/software equipment required to accomplish day-to-day work requirements in support of the overall contract-level effort. All GFE shall be returned to the Government at the completion of each task order unless otherwise specified.

5.3 Workspace. The Government may provide working space on an as-available basis and while on trips to Government-operated facilities or military installations. Details will be provided in individual task orders.

6. PERSONNEL CONSIDERATIONS AND FACILITIES.

6.1 Personnel Security. Personnel security requirements will be specified in individual task orders. The majority of personnel supporting DISA under this contract will require a minimum security clearance of U.S. SECRET. In some cases, access to Sensitive Compartmented Information (SCI) may be required, and will be specified in individual task orders. Staff members with security clearances, SAP, and Presidential accesses are also required to complete tasks associated with NMCS and SLCS support. If required, any other special security requirements that exceed those specified in the contract-level DD Form 254 will be addressed in individual task order DD Forms 254.

6.2 On-Site/Lease/Rental of Facilities. The contractor shall provide facilities to support this contract unless otherwise indicated in individual task orders.

6.3 Classified Storage. The contractor shall establish and maintain a classified facility and procedures for receipt, storage, and generation of classified material, up to and including TOP SECRET, in accordance with the security programs such as the DoD Industrial Security Manual (DoD 5220.22-M), the DD Form 254, and appropriate security instructions or guidelines. Facilities and facility clearances for the storage of classified and Special Access Program (SAP) information, Special Compartmented Intelligence Facilities (SCIFs), SAP spaces for classified discussions is also required to complete tasks associated with NMCS and SLCS support. No classified or communications security (COMSEC) information shall be sent to or stored at the facility before it has been granted a facility clearance and storage capability defined by the Defense Security Service (DSS). If such requirement is imposed, it will be identified in the individual task order and the requirements will be contained in an accompanying DD Form 254.

6.4 Personnel Qualifications. The qualifications of any personnel provided by the contractor to perform these services shall meet the minimum qualifications as stated in Section J, Personnel Qualifications.

6.5 ADP Position Sensitivity. DOD 5200.2-R, DOD Personnel Security Program, requires DOD contractor personnel who perform work on sensitive automated information systems to be assigned to positions, which are designated at one of two sensitivity levels (ADP-I, ADP-II). These designations equate to Critical Sensitive, Noncritical Sensitive. All positions required for DOD task orders are, at a minimum, ADP-II. ADP position sensitivity will be addressed in individual task orders. The contractor shall assure that individuals assigned have completed the appropriate forms. The required investigation will be completed prior to the assignment of individuals to sensitive duties associated with the positions. The contractor shall forward their employee clearance information (completed SF 85P, Questionnaire for Positions of Public Trust, and two DD Forms 258 (Fingerprint cards) to: Defense Security Service (DSS) and for further assistance they can be reached through their website at www.dss.mil. DISA retains the right to request removal of contractor personnel, regardless of prior clearance or adjudication status,

whose actions, while assigned to the this task order, clearly conflict with the interests of the Government. The reason for removal will be fully documented in writing by the Contracting Officer. When and if such removal occurs, the contractor shall within three working days assign qualified personnel to any vacancy(ies) thus created.

7. REPORTS, DATA, BRIEFINGS, MEETINGS, AND OTHER DELIVERABLES. The contractor shall provide all deliverables in accordance with the requirements as specified in individual task orders.

7.1 Periodic In-Progress Review (IPRs). The contractor shall conduct contract level or task order level IPRs concerning task order and performance-related issues as specified in individual task orders.

7.2 Briefings. The contractor shall prepare and present briefings to the Government on the results of efforts undertaken under this contract and individual task orders. The schedules and formats for these briefings will be specified in individual task orders or as mutually agreed to between the contractor and the Task Monitor (TM).

7.3 Documentation. The contractor shall prepare and deliver documents and data as specified in individual task orders.

7.4 Meetings. The contractor shall attend and/or conduct meetings (i.e., technical interchange meetings (TIM)) as specified in individual task orders.

7.5 Data Item Descriptions (DIDs). This is a general contract laying the groundwork for more specific requirements in the task orders. Each task order will reference the below DIDs via sequence number in order to establish specific data requirements or identify additional data requirements (i.e., contractor format) as required. The DIDs are available during the course of the contract and are located at http://stinet.dtic.mil/str/dodiss4_fields.html. This list is not all-inclusive.

Sequence Number	Title	DID Number
A001	Information Systems Accreditation Document	DI-ADMN-80239
A002	Contract Summary Report	DI-ADMN-80447
A003	Revision to Existing Government Document	DI-ADMN-80925
A004	Conference Agenda	DI-ADMN-81249A
A005	Conference Minutes	DI-ADMN-81250A
A006	Conference Report	DI-ADMN-81308
A007	Progress Report (Studies)	DI-ADMN-81313
A008	Presentation Material	DI-ADMN-81373
A009	Contract Change Proposals (CCPS)	DI-ADMN-81401A
A010	Engineering Releasing Record (ERR)	DI-CMAN-80463C
A011	Configuration Audit Plan	DI-CMAN-80556A
A012	Engineering Change Proposal (ECP)	DI-CMAN-80639C

A013	Request for Deviations (RFD)	DI-CMAN-80640C
A014	Request for Waivers (RFW)	DI-CMAN-80641B
A015	Notice of Revision (NOR)	DI-CMAN-80642C
A016	Specification Change Notice (SCN)	DI-CMAN-80643C
A017	Contractor's Configuration Management Plan	DI-CMAN-80858B
A018	Configuration Audit Summary Report	DI-CMAN-81022C
A019	Installation Completion Notificaiton (ICN)	DI-CMAN-81245A
A020	Advance Change Study Notice (ACSN)	DI-CMAN-81246A
A021	Interface Control Management Data Report	DI-CMAN-81247A
A022	Interface Control Document (ICD)	DI-CMAN-81248A
A023	Configuration Status Accounting Information	DI-CMAN-81253A
A024	Configuration Item Documentation Recommendation	DI-CMAN-81293
A025	System/Segment Interface Control Specification	DI-CMAN-81314
A026	Cost Data Summary Report (DD Form 1921)	DI-FNCL-81565
A027	Functional Cost-Hour Report (DD Form 1921-1))	DI-FNCL-81566
A028	Progress Curve Report (DD Form 1921-2	DI-FNCL-81567A
A029	Performance and Cost Report	DI-FNCL-80912
A030	Logistic Support Analysis Plan	DI-ILSS-80531
A031	Training Materials	DI-ILSS-80872
A032	Training Program Development & Management Plan	DI-ILSS-81070
A033	Instructional Media Package	DI-ALSS-81526
A034	LSA-080, Bill of Materials	DI-ILSS-81169A
A035	Internal Contractor Technical Data	DI-ILSS-81309A
A036	Data Dictionary Directory -Metadata Product	DI-IPSC-80423
A037	Computer Software System Document	DI-IPSC-80942
A038	Software Development Plan (SDP)	DI-IPSC-81427A
A039	Software Installation Plan (SIP)	DI-IPSC-81428A
A040	Software Transition Plan (STrP)	DI-IPSC-81429A
A041	Operational Concept Description (OCD)	DI-IPSC-81430A
A042	System/Subsystem Specification (SS)	DI-IPSC-81431A
A043	System/Subsystem Design Description (SSDD)	DI-IPSC-81432A
A044	Software Requirement Specification (SRS)	DI-IPSC-81433A
A045	Interface Requirements Specification (IRS)	DI-IPSC-81434A
A046	Software Design Description (SDD)	DI-IPSC-81435A
A047	Interface Design Description (IDD)	DI-IPSC-81436A
A048	Database Design Description (DBDD)	DI-IPSC-81437A
A049	Software Test Plan (STP)	DI-IPSC-81438A
A050	Software Test Description (STD)	DI-IPSC-81439A
A051	Software Test Report (STR)	DI-IPSC-81440A
A052	Software Product Specification (SPS)	DI-IPSC-81441A
A053	Software Version Description (SVD)	DI-IPSC-81442A

A054	Software User's Manual (SUM)	DI-IPSC-81443A
A055	Software Center Operator Manual (SCOM)	DI-IPSC-81444A
A056	Software Input/Output Manual (SIOM)	DI-IPSC-81445A
A057	Computer Operation Manual (COM)	DI-IPSC-81446A
A058	Computer Programming Manual (CPM)	DI-IPSC-81447A
A059	Firmware Support Manual (FSM)	DI-IPSC-81448A
A060	Computer Software Product End Items	DI-MCCR-80700
A061	Design Specification	DI-MCCR-81344
A062	Security Features User's Guide	DI-MCCR-81349
A063	Management Plan	DI-MGMT-80004
A064	Site Preparation Requirements and Installation Plan	DI-MGMT-80033
A065	Task Assignment Plan	DI-MGMT-80057
A066	Contractor's Progress, Status and Management Report	DI-MGMT-80227
A067	Status Report	DI-MGMT-80368
A068	Project Planning Chart	DI-MGMT-80507A
A069	Program Progress Report	DI-MGMT-80555
A070	Program Plan	DI-MGMT-80909
A071	Operations Security (OPSEC) Plan	DI-MGMT-80934
A072	System Engineering Management Plan (SEMP)	DI-MGMT-81024
A073	Contract Work Breakdown Structure	DI-MGMT-81334
A074	Data Accession List	DI-MGMT-81453
A075	Cost Performance Report (CPR)	DI-MGMT-81466
A076	Cost/Schedule Status Report (C/SSR)	DI-MGMT-81467
A077	Contract Funds Status Report (CFSR)	DI-MGMT-81468
A078	Contract Data Status and Schedule Report	DI-MISC-80167A
A079	Technical Report -Study/Services	DI-MISC-80508A
A080	Scientific and Technical Reports	DI-MISC-80711A
A081	Implementation Plan	DI-MISC-80919
A082	Integrated Master Schedule (IMS)	DI-MISC-81183A
A083	Philosophy of Protection Report	DI-MISC-81348
A084	Site Survey Report (SSR)	DI-MISC-81381
A085	Test Plan	DI-NDTI-80566
A086	Test Procedure	DI-NDTI-80603
A087	Test/Inspection Reports	DI-NDTI-80809B
A088	Security Test Plan	DI-NDTI-81351
A089	Trusted Facility Manual	DI-TMSS-81352

7.6 Year 2000 (Y2K) Compliance. All IT products and services provided under the NexGen contracts shall be Y2K-compliant. The Y2K checklist, located at <http://www.disa.mil/cio/y2k/disa-plan-app-d-checklist.html>, shall be used throughout the testing,

certification and validation process to aid functional, system and network managers to ensure system, network, and/or database is/are Y2K-compliant.

7.7 Specifications and Standards. IT requirements shall be satisfied with COTS, open-system based capabilities, and enabling products to the maximum extent practicable.

7.8 Section 508 Compliance. Section 508 compliance will be addressed in each task order, and may or not may apply based on the requirements of the task order.

8. TRAVEL. The contractor shall perform travel, both within and outside the United States, to include local travel, as required by the contract and as stated in individual task orders. The individual TM shall approve travel requirements.